

62-12567

Babushkin, A. A., Uvarov, A. V., and
Ignat'eva, L. A.
INVESTIGATION OF ADSORPTION AND SURFACE
REACTIONS OF ETHANOL AND METHANOL ON
ALUMINA BY MEANS OF INFRARED SPECTROS-
COPY. [1961] 7p.
Order from ATS \$12.50

ATS-97N57R

Trans. of Lvov U. Fiz[icheskii] Sbornik (USSR) 1957,
no. 3[8] p. 161-167.

DESCRIPTORS: *Adsorption, *Surface properties,
*Ethanol, *Methanol, *Aluminum compounds,
Oxides, Infrared spectroscopy.

(Chemistry--Physical, TT, v. 7, no. 9)

- I. Babushkin, A. A.
- II. Uvarov, A. V.
- III. Ignat'eva, L. A.
- IV. ATS-97N57R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS/RS-563

Office of Technical Services

Spectrographic Work of the Metal-Physico
Laboratory of the Stalingrad Branch of
Giprometalmazh, by B. G. Voronov,

RUSSIAN, per, Fiz Sbornik L'vovsk Univ, Vol 1V,
No 2, 1958, pp 395-402.

BISI 2369

Sci - Phys

176, 462

Dec 61

Spectrograph for the Analysis of Molten Metal and
Slag, by I. M. Kustanovich.

RUSSIAN, per, Fiz Sbornik L'vovsk Univ, Vol IV,
No 9, 1958, pp 451-452.

BISI 2370

Sci - Min/Metals

Dec 61

175,862

Chemical and Spectral Analysis of
Impurities in Pure Metals,
by A. G. Karabash, et al.
RUSSIAN, per, Fiz. Sbornik L'vov
Univ, No 4, 1958, pp 556-562.
BISI 4137

USSR
Sci/MGM
Jul 65

282,437

Raman Scattering by Alkali Metal Halide
Crystals, by A. I. Stekhanov.
RUSSIAN, per, Fiz. Shtelochnoyaloitdnykh
Kristallov, Riga, 1962, pp 83-98 9230156
AEC UCRL-Tr-1248(L)

Sci-Phys
Nov 65

291, 640

Experiments With Electronic Tabs, by B. L.
Morgolin.

RUSSIAN, per, Fizika v Shkole, No 6, 1956, pp
60-62.

SEE S-683/60
(NY-5008).

Development of the Method of Teaching Physics in
the USSR, By I. I. Sokolov, 27 pp.

RUSSIAN, per, Fiz v Shkola, No 5, 1957, pp 23-36.

ACSI, H-4084

USSR

Soc - Education

Sep 59

96,994

News From Science and Technology, 5 pp.

RUSSIAN, par, Plazha V Shkole, No 1, 1957,
pp 32-33. 9669949

FID-TT-63-671

Sci - Phys

Sept 63

344,064

The News of Science and Technique, 4 pp.
UNCLASSIFIED

RUSSIAN, per, Fizika v Shkole, No. 6, 1957,
pp 16-17. *037-459*

ATIC MCL-13/III

Sci - Space Res

Jun 59

89,459

GR-234/62

Mirlen Lazarevich Aksenov, 230¹⁰⁴⁴⁴⁵

RUSSIAN, per, Fizkika v Shkole, No 3:4, 1961.

JPRS/NY-7398

USSR
Bicg

Feb 63

CR-284-02

Nataliya Samoylovna Krever, *208*

RUSSIAN, Fizika v Shkole, Vol ^{XXI} ~~21~~, ~~XXIXIXX~~ No 3:5,
1961,

g
*JPRS/NY-7398

USSR

Biog

Feb 63

CR-264-62

Varvara Andreyevna Kanygina, 18.

RUSSIAN, per, Fizika v Shkole, No 5:6, 1961.

2 ¹²⁶ ¹²⁶ ¹²⁶
JPRS/NY-7398

USSR

Biog

Feb 65

CR-284-62

Rosa Khasanovna Baygil'dina, *1/2*

RUSSIAN, per, Fizika & v Shkole, No 2:9, 1961,

Valm
JPRS/NY-7398

USSR
Biog
Feb 63

New Agricultural Technology, by K. P. Marakhtanov,
L. N. Musinov, 8 pp.
RUSSIAN, per, Fizika v Shkole, No 5, 1963, pp 6-18.

JPRS 23537

USSR
Econ
Mar 64

251, 137

Physics of the Solar System, by
A. A. Mikhailov.
RUSSIAN, rpt, Fizika Solnechnoy Sistyemy,
1964,
NASA TT F-342

Sci-Astronomy and Astrophysics
Jan 67

317,854

Physics of Solar Corona, by I. S. Shklovskiy

RUSSIAN, bk, Fizika Solnechnoikonomy, 1962

*Israel/PST (Not FL-480)

Sept 62

The Connection Between Solar Activity and Geomagnetic Disturbances, by A. I. Ol'.

RUSSIAN, bk, Fizika Solnechnykh Korpuskuliarnykh Potokov i Ikh Vozdeistvie na Verkhniyu Atmosferu Zemli, pp 69-86. 9070031

Amer Meteorol Soc
AF Cambridge Res Center

Sci - *Astronomy*
~~Geophysics~~

Sep 60

125,789

Discussions on the Lectures of E. R. Mustel',
A. B. Savvnyi, B. K. Vokhvatitskii et al.,
G. M. Nikol'skii, E. A. Ponomarev, 11 pp.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdystviye na Verkhnyuyu Atmosferu
Zemli; Trudy Konferentsii Komissii po Issledovaniyu
Solntsa, 22-24 Iyulya 1955 g, Moscow, 1957,.

90 70031

ATTC MCL-309/III
Amer Meteorol Soc
AF Cambridge Res Center

105,240

Sci - Astronomy
Telecom 41775
Jan 60

Discussion on the Lectures, by O. A. Burdo,
A. I. OL, 6 pp.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Trudy Konferentsii Komissii po Issledovaniyu
Solntsa, 22-24 Iyabrya 1955 g, Moscow, 1957,

9070031

WATC MCL-309/III
Amer Meteorol Soc
AF Cambridge Mass Center

Sci - Astronomy
Telecomm 41775
Jan 60

105,239

Discussion of the Possible Sources of Geoeffective
Corpuscles in the Solar Envelope, by E. R.
Murtel', 56 pp.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli, Trudy Konferentsii Komissi po Issledovaniyu
Solntsa, 22-24 Iyabrya 1955 g, Moscow, 1957, 118 pp. 37

96 700-37
ATC MEL-309/III
Amer Meteorol. Soc
AF Cambridge Res Center

Sci - Astronomy
Telecom 41775
Jan 60

105,243

Spectroscopic Investigation of Corpuscular
Ejections on the Sun, by A. B. Severnyi, 16 pp.

RUSSIAN, in, Fizika Solnechnykh Korpuskulyarnykh
Potokov i ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Trudy Interferentsii Komissii po Issledovaniyu
Solntsa, 22-24 Iyulya 1955 g, Moscow, 1957.

9070031

6ATTC MCL-309/III
Amer Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecom 41775
Jan 60

105,139

On Solar Corpuscular Radiation, by S. K.
Vashcheyatskiy, Ye. A. Ponomarev, et/al. USSR

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Varkhnyuyu Atmosferu
Zemli; Trudy Konferentsii Komissii po Issledovaniyu
Solntsa, 22-24 Iyulya 1955 g, Moscow, 1957, pp
51-58.

AFIC MCL-309/III

Sci - Astronomy

Apr 60

112,946

Photometry of Coronal Rays and Corpuscular Streams
by G. M. Nikolskiy UDC

RUSSIAN, bk, Fizika Solnechnykh Korpustulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Tруды Konferentsii Komiteta po Issledovaniyu
Solntsa, 22-24 Noyabrya 1955 g., Moscow, 1957
pp 61-63.

ATTC MCN.-309/III

Sci - Astronomy

112,948

Apr 60

Corpuscular Radiation of the Sun and Topology of the
Magnetic Field in the Solar Corona, by Ye. A.
Ponomarev.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Trudy Konferentsii Ekspertov po Issledovaniyu
Solntsa, 22-24 Iyulya 1955 g, Moscow, 1957, pp
69-75. 90 70031

QATC MEL-303/III
Amer Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecom 41775

105,234

Investigation of Movements in the Solar Corona, by
Studying Flare-Ups in Radiowave Emission, by V. V.
Vilchevich. UNCL

RUSSIAN, Ek, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ego Vozdeystviye na Verkhnyuyu Atmosferu
Zemli. Zhurnal Kosmicheskoy Fiziki i Issledovaniy

Effect of Solar Corpuscular Radiation on Comets,
by S. M. Poloskov UNSC.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ekh Vozdeystviye na Vokruguyu Atmosferu
Zemli: Trudy Konferentsii Komissii po Issledovaniyu

Electromagnetic Phenomena in Cometary Corona,
by S. D. Blinov. USSR

RUSSIAN, 113, Fizika Solnechnoy i Korpustulyarnoy
Fosferov i Zhi Vozdeystviye na Verkhnyuyu Atmosferu
Zamli; Grudy Konferentsii Koznizi po Ispedovaniyu
Solntsa, 112-21 Boyahya 1955 g, Moscow, 1957,
pp 105-111.

ATIC MCL-309/III

Doc - Astronomy, Physics

Apr 60

112,942

Information on Solar Corpuscular Streams Obtained
by Studying Cosmic Ray Variations, by L. I.
Dorman,
UNCL

RUSSIAN, in, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviya na Verkhnyuyu Atmosferu
Zemli; Trudy Mezhvedentsii Komitetu po Issledovaniyu
Solntsa, 12-24 Mays'ya 1955 g., Moscow, 1957
pp 112-128.

ATID MEL-309/III

Sci - Astronomy

Apr 60

112, 944

Interpretation of Research Data on Geomagnetic
Disturbances of a Corpuscular Nature, by E. Ye.
Bryunelli, UNCL

RUSKIN, M., Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Trudy Konferentsii Komissii po Issledovaniyu
Solntsa, 22-24 Noyabriya 1955 g., Moscow, 1957,
pp 131-143.

AFIC MCL-309/III

Sci - Astronomy

112,943

Ann 60

Magnetic Disturbances in the Circumpolar Region and
the Existence of a Second Zone of Their Intensive
Activity, by A. P. Nikolskiy.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli, Tруды Конференции Комиссии по Исследованию
Солнца, 22-24 Маября 1955 г, Moscow, 1957, pp
144-158. 907003/

QATC MCL-309/III
Amer Meteorol Soc
AF Cambridge Mass Center

Sci - Astronomy, Geophysics
Telecom 4X775 Jan 60 105,235

On Certain Regularities of Magnetic Disturbances
in High Altitude, by G. A. Burdakov. UDC

RUSSIAN, Ob Finika Solnechnykh Koryumbil'nykh
Potolov i ikh Vozdeystviye na Verkhnyuyu Atmosfera
Zemli; Trudy Konferentsii Komitet po Issledovaniyu
Solntsa, 12-24 Iyabrya 1955 g., Moscow, 1957
pp 159-166.

ATTC MCL-309/III

Sci - Geophysics

Am: 60

SH 112,945

On the Connection Between Solar Activity and
Geomagnetic Disturbances, by A. I. OL.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli, Trudy Konferentsii Komissi po Issledovaniyu
Solntsa, 22-24 Iyabrya 1957 g, Moscow, 1957,
pp 167-177. 90700319

CATC MEL-309/III
Amer Meteorol Soc
AF Cambridge Mass Center

Sci - Astronomy
Telecom 41775
Jan 60

105,236

On Hydrogen Emissions in the Spectrum of the Aurora
Borealis, by S. L. Issyev.

RUSSIAN, bk, Fizika Solnechnykh Korpustulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Trudy Konferentsii Komitet po Issledovaniyu
Solntsa, 22-24 Iyulya 1955 g, Moscow 1957, pp
178-181. 90 90031 9

ATTC WTL-309/III
Auror Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecomm 41775
Jan 60

105,237

High-Sky Luminosity and Solar Activity, by S. P.
Rodionov.

UETL

RUSSIAN, bk. Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ekh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Trudy Konferentsii Komissii po Issledovaniyu S
Solntsa, 22-24 Novyabr, 1955 g, Moscow, 1957,
pp 269-272.

ATDC MEL-309/III

Sol - Astronomy

Apr 60

112, 938

Equation of Quasistationary Ionization Equilibrium in
F₂ Layer and Solar Corpuscular Radiation, by B. E.
Mogilevskiy.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli, Trudy Konferentsii Komissii po Issledovaniyu
Solntsa, 22-24 Iyulya 1955 g, Moscow, 1957,
pp 261-268.

9070031

9070031
GATC MCL-309/III
Amer Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecom 41775
Jan 60

105,238

The Sun, (A Survey of Modern Solar Physics, by A. Nevenay,

Lawrence & Wishart Ltd, London

Sci - Engng

May 60

French Five Library

GB

521.

815

123

CAP. 2

116,500

Request translation check FTD 21-8-78 B109-1-17001

Effect of heat treatment on the wear resistance of a
nickel-phosphorus coating 4 pp

~~M/B~~

N Bazarbekov, Yu S Terminasov
Fiz. Svoystva Dielek. Poluprov. Krist. 1967, 49-51

Completed *[Signature]*

FTD - MT. 24 - 327 - 69

[Signature]
15 April 68

Physics and Engineering of Strong Magnetic
Fields, Handbook, by V. R. Karaskik.

RUSSIAN, mono, Fizika i Tekhnika Sil'nykh
Magnitnykh Polei, Moscow, 1964, 320 pp.

*CB

Sci-Phys
May 64

The Physics and Technology of Strong
Magnetic Fields, by V. R. Karasik.
RUSSIAN, bk, Fizika i Tekhnika Silnykh
Magnitnykh Polei, 1964, 350 pp.
NLL R. 35113

Sci-Phys
June 66

301,470

62-32507

Chudnovskii, A. F.
PHYSICS OF HEAT EXCHANGE IN SOIL. [1962]
[317]p. 179 refs. USASIA Trans. Log no. 1381.
Order from OTS or SLA \$19.75 62-32507

Trans. of mono. Fizika Teploobmena v Pochve, no
Moscow, 1943, 220p.

DESCRIPTORS: *Soils, *Heat transfer, Heat ex-
changers, *Geophysics, *Agriculture, *Meteorology,
Thermal diffusion, Test methods, Mathematical
analysis.

Contents:

Basic problem in the field of soil energetics, and
methods of its solutions

The role soil heat exchange plays in the total heat
balance and the significance of such an exchange for
geo-agrophysical problems

Study methods of thermal conditions in soils
(Earth Sciences, TT, v. 8, no. 9)

(over)

- I. Chudnovskii, A. F.
- II. USASIA Trans-1381
- III. Army Signal Intelligence
Agency, Arlington, Va.
- IV. Systems Engineering Facility,
RCA Service Co.,
Alexandria, Va.

Office of Technical Services

61-31215

Chudnovskii, A. F.
HEAT TRANSFER IN THE SOIL, tr. by S. Monson.
1962, 164p. 179 refs. PL-480 Agr.
Order from OTS \$1.75

61-31215

Trans. of mono. Fizika Tepochmena v Pochve,
Leningrad/Moscow, 1948 [220p.]. 9207559

DESCRIPTORS: *Soils, *Heat transfer, Geophysics.

Contents:

The fundamental problem of soil energetics and methods for its solution

Heat transfer in soil: its role in the total heat balance and significance in geophysical and agrophysical problems

Methods for the study of the soil heat regime

Fundamental characteristics of the soil thermal regime

Theory of heat transport in the upper layers of the soil

Practical applications

(Agriculture--Plant Cultivation, TT, v. 9, no. 7)

I. Chudnovskii, A. F.
II. PL-480 Agr (61-31215)
III. National Science Foundation, Washington, D. C.

Office of Technical Services

Reactor Physics and Heat Engineering,

RUSSIAN, ^{bk} rpt, Fizika i Teplotekhnika Reaktora, Publishing House on Atomic Literature, 1958, ~~xx~~ 214 pp.

*AEC ~~to 303~~

Sci - Physics
Jul 58

Dislocation and Diffusion Effects in
Recrystallization of Deformed Copper, by
B. Ya. Pines, 8 pp.

RUSSIAN, ^{per} ~~ant~~, Fizika Tverdogo Tela-Sbornik
Statey, 1949, pp 264-272.

ACSI E-8693
ID 2162139

Sci - Phy

Jun 61

154,733

Temperature Dependence of Ionization Energy of
Impurity Centers in a Homopolar Crystal,
by Fisher, Smolik, 2 pp.

RUSSIAN, ^{Rev. 1} ~~1st~~, Fizika Tverdogo Tela, Sbornik Statey,
1959, pp 3-7.

ACSI H-8691
ID 2162137

Sci - Phys
Mar 64

Influence of Short-Range Order on Electric
Properties of Substance, by A. B. Almazov, 5 pp.
UNCL

RUSSIAN, per, Fiz Tverdogo Tela-Sbornik Statey,
1959, pp 158-161.

AWSI H-8458
ID 2162095

Sci - Phys
Mar 61

143,870

Physics of Solids, Collection of Articles.

RUSSIAN, bk, Fizika Tverdogo Tela, Sbornik Statey
I and II, 1959, pp 298-328.

*ATIC ~~ME~~

Sci - Phys

1 Aug 60

Telecom IC 41311

Bonch-Bruевич, V. L.
ZUR THEORIE DER STÖRSTELLENZUSTÄNDE IN
HALBLEITERN (On the Theory of Impurity States in
Semiconductors).
Order from TIB \$1.80

Trans. in German of mono. Fizika Tverdogo Tela:
[Sbornik Statei (Solid State Physics: Collection of Arti-
cles) v. 1, Moscow] 1959, p. 177-181.

DESCRIPTORS: Impurities, *Semiconductors, Theory

(Physics--Solid State, TT, v. 9, no. 11)

62-27327

- I. Bonch-Bruевич, V. L.
- II. Technische Informations-
bibliothek, Hannover
(West Germany)
- III. Title: Solid...

Office of Technical Services

Dislocation and Diffusion Effects in Recrystallization
of Deformed Copper, by B. Ya. Pines, 8 pp.

RUSSIAN, per, Fizika Tverdogo Tela, Sbornik Staty,
1959, pp 264-272.

ACSI H-8693

ID 2162139

Sci - Phys
Mar 64

The Secondary Electron Emission of Certain Polymers,
by T. L. Matakevich.
RUSSIAN, per, Fizika Tverdogo Tela, Sbornik Statey,
Vol I, 1959, pp 277-281.
NASA TT F-8847

Sci-Phys
May 64
U.S. GOVERNMENT ONLY

259,735

Thermoelectric High Vacuum Trap for the Pump N-5,
by E. A. Kolenko, et al, 2 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Sbornik Statey, V
Vol I, 1959, p 283.

CIA/PMD XX-977

Sci - Engineering
Mar 61
USIB only

142,486

Secondary Electronic Emission of Certain Polymers,
by T. L. Matskevich.

RUSSIAN, per, Fizika Tverdogo Tela, Sbornik Statey I,
Vol I, # 1959, pp 277-281.

*NASA TT F-8847

Sci - Phys, Electron

Mar 64

U.S. GOVERNMENT ONLY

Surface Tension and Heat of Sublimation of
Silicon, Germanium and Lead, by S. N. Zak
Zadumkin,

RUSSIAN, per, Fiz Tverdovogo Tela, Vol I, No 4,
1959, pp 572-573. 9097858

*AEC Tr- 4938

Sci
Oct 61

ATC/RS-3417

The Dependence of the Reverse Current Through a
Germanium Diode on the Repetition Frequency of
Voltage Pulses, by S. G. Shul'man.

RUSSIAN, per, Fiz Tverdova Tela., Vol 1, No 4,
1959, pp 597-601.

Internatl Physical Index
Electronics Express
Vol II, No 1

Sci - Electronics
Nov 59

100,525

The Transient Response Involved in the Blocking of
a Junction Semiconductor Diode at Large Values of
Current, by Yu. K. Barsukov.

RUSSIAN, per, Fiz Tverdogo Tela, Vol I, No 4, 1959,
p 602.

Internat'l Physical Index
Electronics Express
Vol II, No 1

Sci - Electronics
Nov 59

100,526

Mass-Spectrometer Determination of the Amount
and Composition of Gases Adsorbed on the Surface of
Germanium and Silicon Monocrystals (Excerpts),
by V. M. Kozlovskaya, 7 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol I, No 7,
1959, pp 1027-1034. (Excerpts, pp 1027-1029).

AEC SCL-T-344

Sci
Jun 61

155,940

On the Theory of Impurity Bands, by V. I. Bonch-Bruyevich, 10 p.

RUSSIAN, per, Fiz Tverd Tel 1959, Vol I, No 8, pp 1213-1220.

MDF B-148

Sci
Apr 60
Vol III, No 3

113,666

Dielectric Polarization of Some Complex Compounds,
by G.A. Smolenskiy, A.I. Agranovskaya.

RUSSIAN, per, Fiz Tver Tela, Vol I, No 10, 1959.
9661846. *Pp 1562-1572*

ATIC MCL 472/1

Sci - Phys
Jun 61

155,545

Ferroelectric Subtraction Substitutional Solid
Solutions, by G.A. Smolenskiy, V.A. Isupov,
A.I. Agranovskaya.

RUSSIAN, per, Fiz Tver Tela, Vol I, No 10, 1959,
pp 1573-1582. 9561846.

ATTC MCL 472/1

Sci - Phys
Jun 61

155,549

11 158

GE-1

PIKUS G. E., BIR G. L.

The influence of deformations on the energy spectrum of the holes in germanium and silicon

Der Einfluss von Deformationen auf das Energiespektrum der Löcher in Germanium und Silizium

*Fiz. Tverd. Tela, 1, 1642-1658 (1959)

Physikalische Abhandlungen aus der Sowjetunion, 2, No.4, 336-354 (1960)

German

E u r a t o m

11 152

GE-1

KLYAVIN O. V., STEPANOV A. V.

Study of the mechanical properties of metals at liquid helium temperatures

Untersuchung der mechanischen Eigenschaften von Metallen bei Heliumtemperaturen

*Fiz. Tverd. Tela, 1, 1733-1735 (1959)

Physikalische Abhandlungen aus der Sowjetunion, 2, No. 4, 323-326 (1960)

German

E u r a t o m

Chuenkov, V. A.
DIE THEORIE DES ELEKTRISCHEN DURCH-
SCHLAGS DER HALBLEITER. I. (The Theory of
the Electric Breakdown of Semiconductors). (text in
German).
Order from T.I.B. \$1.85

Trans. from mono. Fizika Tverdogo Tela; Sbornik
Statei, v. 2 [Moscow, 1959].

DESCRIPTORS: Theory, *Semiconductors.

(Physics--Solid State, TT, v. 8, no. 10)

62-27188

I. Chuenkov, V. A.
II. T.I.B.
III. Technische Informations-
bibliothek Hannover

Office of Technical Services

62-27182

Kolomiets, B. T. and Mal'kova, A. A. ..
EIGENSCHAFTEN UND STRUKTUR TERNARER
HALBLEITERSYSTEME. V. (Properties and Struc-
ture of Ternary Semiconductor-systems). (text in
German).
Order from T.I.B. \$1.85

Trans. of mono. Fizika Tverdogo Tela: Sbornik
Statei, v. 2 [Moscow] 1959, p. 32-38.

DESCRIPTORS: Physical properties, Structure,
*Semiconductors.

(Physics--Solid State, TT, v. 8, no. 10)

I. Kolomiets, B. T.
II. Mal'kova, A. A.
III. T. I. B.
IV. Technische Informations-
bibliothek Hannover

Office of Technical Services

62-27185

I. Mashovets, T. V. and Rykin, S. M.
ÜBER DIE TEMPERATURABHÄNGIGKEIT DER LEBENS-
DAUER IM GERMANIUM IM EIGENLEITUNGS-
BEREICH (On the Temperature Dependence of the En-
durance in Germanium in the Intrinsic Conductor-
range). (In Russian in German).
Order from T.L.B. \$1.85

Trans. of the Physics Institute of the Soviet Academy of Sciences, v. 2 (Moscow) 1959, p. 770-78.

DESCRIPTORS: *Germanium, Conductors.

(Physics--Solid State, FT, v. 8, no. 10)

I. Mashovets, T. V.
II. Rykin, S. M.
III. T.L.B.
IV. Technische Informations-
bibliothek Hannover

Office of Technical Services

Litovchenko, V. G. UNTERSUCHUNG SCHNELLER OBERFLACHEN- ZUSTÄNDE VON SILIZIUM (Testing of Rapid Finishes of Silicon). (text in German). Order from T. I. B. \$1.55 Trans. of mono. Fizika Tverdogo Tela: Sbornik Statel, v. 2 [Moscow] 1959, p. 83-87. DESCRIPTORS: Test methods, *Finishes, *Silicon. (Materials--Finishes, TT, v. 8, no. 10)	62-27172 I. Litovchenko, V. G. II. T. I. B. III. Technische Informations- bibliothek Hanover Office of Technical Services
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Nasledov, D. N., Smirnova, N. N., and Tsarenkov, B. V.
POINT-CONTACT GALLIUM ARSENIDE DIODES
(Tecnichno-Kontaktnye Diody na Osnove Arsenida Galliya). [1961] 17p. (foreign text included) 5 refs.
Order from: OIS or SLA \$1.10 61-16319

Trans. of mono. Fizika Tverdogo Tela: Stornik
[Ser. Solid State Physics: Collection of Articles]
Moscow, U.S.S.R., v. 2, p. 95-98.

DESCRIPTORS: *Diodes, *Gallium compounds, Arsenides, Gallium alloys, Electron tubes, Metal plates, Electrical conductance, Electric connectors, Voltage.

The method of preparing point-contact diodes of *n*-type GaAs is described briefly. The volt-ampere characteristics of the diode for different temperatures are given. It is shown the diode properties are retained (Physics--Solid State, TT, v. 7, no. 3) (over)

61-16319

I. Nasledov, D. N.
II. Smirnova, N. N.
III. Tsarenkov, B. V.
IV. Title: Solid ...

Office of Technical Services

Alferov, Zh. I., Gordeev, G. V. and Stafeev, V. I.
TEMPERATURABHÄNGIGKEIT DER DURCHSCHLAG-
SPANNUNG IN GERMANIUM - UND SILIZIUMDIODEN
(Temperature Dependence of the Breakdown in
Germanium and Silicon-diodes). (text in German).
Order from T. I. B. \$1.55

Trans. of moso. Fizika Tverdogo Tela; Sbornik Statei,
v. 2 [Moscow] 1959, p. 104-108.

DESCRIPTORS: Sensitivity, *Germanium, *Silicon,
*Diodes.

(Physics--Solid State, TT, v. 8, no. 10)

62-27173

- I. Alferov, Zh. I.
- II. Gordeev, G. V.
- III. Stafeev, V. I.
- IV. T. I. B.
- V. Technische Informations-
bibliothek Hannover

Office of Technical Services

Chuenkov, V. A.
THEORIE DES ELEKTRISCHEN DURCHSCHLAGS
DER HALBLEITER (p-n-ÜBERGANGE). II. (Theory
of the Electric Breakdown of Semiconductors of
p-n-transitions). (text in German).
Order from T. I. B. \$1.85

Trans. of mono. Fizika Tverdogo Tela: Sbornik Statei,
v. 2 [Moscow] 1959, p. 209-214.

DESCRIPTORS: Theory. *Semiconductors.
Translators.

(Physics--Solid State, TT, v. 8, no. 10)

62-27174

I. Chuenkov, V. A.
II. T. I. B.
III. Technische Informations-
bibliothek Hannover

Office of Technical Services

Theory of Ordering of an Alloy With a Hexagonal
Close-Packed Crystal Lattice, by Z. A. Matysina,
A. A. Smirnov, 6 pp. UNCL

FIZTVERDOGU TEI A - SERNIK STATY
RUSSIAN, per, ~~the American~~ ~~the Soviet~~ Statoy,
Vol II, 1959, pp 286-290.

ACSI H-8459
ID 2162096

Sci - Phys
Mar 61

143,871

Unified Graphic Method of Deriving Indices of
X-Ray Photographs of Polycrystalline Substances,
by S. L. Rudel'man, 9 pp. UNCL

RUSSIAN, par, Fiz Tverdogo Tela-Sbornik Statey,
1959, pp 306-316.

ACSI H-8460
ID 2162097

Sci - Phys
Mar 61

143,872

Advanced Studies on Silicon Photocells, 3 pp.

RUSSIAN, per, Fizika Tverdogo Tela, Vol I,
No 10, 1959, pp 1629-1631.

AID/SIR-3170

Sci - Engineering
Jan 60

105,395

Complex Ferroelectric Compounds, 3 pp.

RUSSIAN, per, Dok Ak Nauk Vol CXXVIII, No 1,
1959, pp 73, 74; Fizika Tverdogo Tela, Vol I,
No 10, 1959, pp 1562-1572.

AID/SIR-3171

Sci - Chem
Jan 60

105,373

Temperature Dependence of the Electrical
Resistance of a Single Crystal of Magnetite
Coiled in a Magnetic Field at a Temperature
Below Low Temperature Transformation, 5 pp.

RUSSIAN, ^{per} ~~Sci~~, Fizika Tverdogo Tela - Sbornik
Statey, 1959, pp 8-10.

ACSI H-8592
ID 2162138

Sci - Phy

Jun 61

154,740

Temperature Hydrodynamic Phenomena,
by Ya. B. Zel'dovich, Yu. P. Rayzer,
1073 pp.
RUSSIAN, bk, Fizika Udarnykh Voln i
Vysokotemperaturnykh Gidrodinamicheskikh
Yavleniy, Moscow, 1963, pp 1-632. 9698697
FTD-MP-64-514

CUO??

RSci - Biol & Med Sci; Phys
Nov 65

291,817

Physics of an Explosion, by F. A. Bann.

RUBENIAN, bk, Fizika Vzyryva, IX Chapters I-IX,
1959.

ERDL, Pt X Belvoir T-1488 H+P

62-32430-(1-7)

Sci - Phys
Aug 62

211, 419

Physics of an Explosion, by F. A. Baum. et al. ~~200,72~~

RUSSIAN, bk, Fizika Vozryva, Chapters X-XV, Moscow,
1959,

ENCL, Ft. Belvoir T-1488

62-32430(10-15)

Sci - Phys
Jan 63

220,727
220,72

Baum, F. A., Stanyukovich, K. P., and Shekhter, B. I.
PHYSICS OF AN EXPLOSION, CHAP. X: COMBUSTION
OF EXPLOSIVES. [1962] [87]p. 13 refs. AERDL
T-1488 (j); RIS E-875.

Order from OTS or SLA \$8.10

62-32430-3

Partial trans. of mono. [Fizika Vzryuva, Moscow,
1959, 800p.].

Another trans. is available from OTS \$7.60 as
AD-278 133, STL Trans-66.

DESCRIPTORS: *Explosives, *Combustion, Physics,
*Explosions, Ignition, Gases, Flames, Explosive
gases, Detonation, Pressure, Theory, Fulminates,
TNT, TETN, RDX, Tetryl, Powders, Benzenes,
Nitro radicals, Organic azides.

Contents: Basic characteristics of combustion processes
of explosives Combustion of gaseous explosive systems
(Physics, TT, v. 9, no. 8) (over)

62-32430-3

- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Combustion...
- V. AERDL T-1488 (j)
- VI. RIS E-875
- VII. Army Engineer
Research and Develop-
ment Labs., Fort
Belvoir, Va.
- VIII. Research Information
Service, New York
- IX. 62-32430-4 canceled.
Included in 62-32430-3

Office of Technical Services

62-32430-5

Baum, F. A., Stanyukovich, K. P., and
Shekhter, B. I.

PHYSICS OF AN EXPLOSION. CHAP. XI. BRISANCE
OF EXPLOSIVES. CHAP. XII. CUMULATION. [1962]
[163]p. AERDL T-1488 (k-1).
Order from OTS or SLA \$12.00 62-32430-5

Partial trans. of mono. [Fizika Vzryuva, Moscow,
1959, 800p.].
Another trans. of v. 12 is available from OTS \$9.60
as AD-266 215, FRL TN-94.

DESCRIPTORS: Physics, *Explosions, *Explosion ef-
fects, Damage, *Shock waves, Fragmentation,
*Shaped charges, *Cavity liners, Jet flames.

See also 62-32430-3

(Physics, TT, v. 9, no. 8)

- I. Title: Brisance
- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Brisance ...
- V. Title: Cumulation
- VI. AERDL T-1488 (k-1)
- VII. Army Engineer Research
and Development Labs.,
Fort Belvoir, Va.
- VIII. Research Information
Service, New York

Office of Technical Services

62-32430-6

Baum, F. A., Stanyukovich, K. P., and Shekhter, B. I.
PHYSICS OF AN EXPLOSION, CHAP. XIII: EXPLOSION IN AIR. [1962] [135]p. AERDL T-1488 (m).
Order from OTS or SLA \$16.50 62-32430-6

Partial trans. of mono. [Fizika Vzryuva, Moscow, 1959, 800p.].

DESCRIPTORS: Physics, *Explosions, Air, Explosion effects, Damage, *Shock waves, Detonation waves, Fragmentation, Projectiles, Velocity.

Contents:

Fundamental physical effects originating as a result of an explosion

One-dimensional dispersion of detonation products

Dispersion of detonation products for an inclined section

(Physics, TT, v. 9, no. 8)

(over)

- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Explosion ...
- V. AERDL T-1488 (m)
- VI. Army Engineer Research and Development Labs., Fort Belvoir, Va.
- VII. Research Information Service, New York

Office of Technical Services

62-32430-7

Baum, F. A., Sanyukovich, K. P., and
Shekhter, B. I.

PHYSICS OF AN EXPLOSION. CHAP. XIV. EXPLO-
SIONS IN DENSE MEDIA. CHAP. XV. SYMPATHETIC
DETONATION. [1962] [147]p. AERDL T-1488 (n-o).
Order from OTS or SLA \$11.00 62-32430-7

Partial trans. of mono. [Fizika Vzryuva, Moscow,
1959, 800p.].

DESCRIPTORS: Physics, *Explosions, *Shock waves,
*Wave transmission, Theory, Projectiles, Gases,
Water, Solids, Continuous media, Soils, *Meteorites,
Impact shock, *Detonations.

See also 62-32430-6

(Physics, TT, v. 9, no. 8)

- I. Title: Sympathetic
detonation
- I. Baum, F. A.
- II. Sanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Explosions ...
- V. Title: Sympathetic ...
- VI. AERDL T-1488 (n-o)
- VII. Army Engineer Research
and Development Labs.,
Fort Belvoir, Va.
- VIII. Research Information
Service, New York

Office of Technical Services

Baum, F. A., Stanyukovich, K. P., and Shekhter, B. I.

PHYSICS OF AN EXPLOSION, SUPPLEMENT: TOWARD THE THEORY OF CUMULATION OF GASES. [1962] [15]p. AERDL T-1488 (p); RIS E-881.
Order from OTS or SLA \$1.60 62-32430-8

Partial trans. of mono. [Fizika Vzryuva, Moscow, 1959, 800p.].

DESCRIPTORS: Physics, *Explosions, *Shock waves, Gases, Dynamics, Theory.

(See also 62-32430-7)

(Physics, TT, v. 9, no. 8)

62-32430-8

- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Toward ...
- V. AERDL T-1488 (p)
- VI. RIS E-881
- VII. Army Engineer Research and Development Labs., Fort Belvoir, Va.
- VIII. Research Information Service, New York

Office of Technical Services

Baum, F. A., Stanyukovich, K. P., and Shekhter, B. I.
PHYSICS OF AN EXPLOSION: CONTENTS [AND]
SUBJECT INDEX. [1962] [8]p. AERDL T-1488 (q).
Order from OTS or SLA \$1.10 62-32430-9

Partial trans. of mono. [Fizika Vzryuva, Moscow, 1959, 800p.].

DESCRIPTORS: Physics, *Explosions, Indexes.

(See also 62-32430-8)

(Physics, TT, v. 9, no. 8)

62-32430-9

- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. AERDL T-1488 (q)
- V. Army Engineer Research and Development Lab., Fort Belvoir, Va.
- VI. Research Information Service, New York

Office of Technical Services

S-487/63

Physics of Earthquakes and Explosion Seismology,
by I. L. Hersesov. (DC-8627)

RUSSIAN, bk, Fizika Zemletryaseny i Seysmika
Vzryvov, ~~Fizika i Seysmika~~ ~~Fizika i Seysmika~~
~~Q. Nauka~~, No 25 (192), 1962, pp 3-360.

JPRS 20,465

Sci - Earth Sci

May 63

Physical and Geographic Mapping, Part III,
by A. G. Isachenko, 189 pp.
RUSSIAN, bk, Fiziko-Geograficheskoye
Kartirovaniye, Chast III, 1961, 253 pp.
RCSI 1-2669

ID 2235111

ID - 22040198-66-✓

USSR
Geog
Mar 66

296,426

Physiographic Provinces, by N. I. Mikhaylov,
47 pp.

RUSSIAN, par, Fiziko-Geograficheskiy Ocherk,
1956, pp (abstracts from entire ~~SW~~ publication).
(CALL No CB239, M5 M63, 1956, E Tr)

JMS

170,459

USSR
Geog
Oct 61

(DC-675A)

Distribution of Tree Belts in Severely Dissected
Terrain, by D. L. Amund, 7 pp.

RUSSIAN, bk, Fiziko-Geograficheskiye Osnovy
Proektirovaniya Zeti Polezashchitnykh Lesnykh
Polos, 1961, pp 305-309.

JPRS 13525

193,667

Scl - Biol
May 62

R-73/62

Physical and Geographical Division into Rayons, by
R. I. Mikhaylov, (DC-6696)

RUSSIAN, bk, Fiziko-Geograficheskoye Rayonirovaniye,
1960, pp 16-17.

*JPRS

USSR
Econ
12 Mar 62

Principles of Geomorphological Zoning,
by Chou Ting-ju, 26 pp.

RUSSIAN, ^{bK} ~~bk~~, Fiziko-Geograficheskoye
Rayonirovaniye Kitaya, 1957, pp 46-64.
(Call No GB316, F56, Vol 1, B Tr)

AMS

USSR
Geog
Oct 61

171,563

Project of Hydrological Zoning of China, 16 pp.

RUSSIAN, bk, Fiziko-Geograficheskoye Rayonirovaniye
Kitaya, Vol. I, Moscow, 1957, pp 88-103. Call No
GB 316, C572.

AMS

FR - China
Geo
Nov 59

100,809

62-34298

Levich, V. G.
MOVEMENT OF DROPS AND BUBBLES IN LIQUID
MEDIA. Jan 62, 12p. 34 refs.
Order from ICE in v. 2, no. 1, \$15.00/year

Partial trans. of mono. [Fiziko-Khimicheskaya
Gidrodinamika] (Physicochemical Hydrodynamics)
[2d ed] Moscow, 1959.

DESCRIPTORS: Hydrodynamics, *Bubbles, Absorp-
tion, Velocity, Viscosity, Resistance, Diffusion,
Mathematical analysis, *Drops.

I. Levich, V. G.
II. Title: Physicochemical ...
III. International Chemical
Engineering, New York

(Mechanics--Hydrodynamics, TT, v. 8, no. 10)

Office of Technical Services

Levich, V. G.
PHYSICO-CHEMICAL HYDRODYNAMICS, 2D ED
REV. 1962, 1v. 700p.
Order from Prentice-Hall, Inc., Englewood Cliffs, N. J.
\$20.00

Trans. of mono. Fiziko-Khimicheskaya Gidrodinamika,
2d ed. rev., Moscow, 1959, 699p.

DESCRIPTORS: *Physical chemistry, *Hydrodynamics,
Chemistry.

(Chemistry--Physical, TT, v. 9, no. 8)

63-12790

- I. Levich, V. G.
- II. Prentice-Hall, Inc.,
Englewood Cliffs, N. J.
- III. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Physicochemical Hydrodynamics, by ~~Veniamin~~ Veniamin
G. Levich, 716 pp.

RUSSIAN, bk, Fiziko-Khimicheskaya Gidrodinamika,
Moscow, 1959, 1 p 1-679.

ABC-Tr-5555

Sci - Phys

PRENTICE - Hall

Jan 63

232,407

Mass Spectrometric Methods of Determining Small
Quantities of Impurities, by S.Ye. Kupriyakov.

37 pp.

RUSSIAN, per, Fiziko-Khimicheskiy Institut.

Problemy Fizicheskoy Khimii, No 3, 1963,

pp 66-75. P100017666

FTD-MI-65-226

Sci/Physics

Sep 66

309,379

Double Mass Spectrometer for the Investigation
of Dissociation of Ions During Collision With
Atoms and Molecules of Different Gases, by
S. Ye. Kupriyanov. 37 pp.
RUSSIAN, per, Fiziko-Khimicheskiy Institut.
Problemy Fizicheskoy Khimii, No 3, 1963,
pp 76-85. P100017666
FTD-MT-65-226

Sci/Physics
Sep 66

309,380